



SEQUENCE LISTING

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HINCHLIFFE, STEWART J.
VAN DEN BERG, CARMEN W.

<120> MODIFIED BIOLOGICAL MATERIAL

<130> WN/KH/JJ/WCM

<140> 09/673,032

<141> 2000-12-06

<150> PCT/GB99/01085

<151> 1999-04-08

<150> GB 9807520.3

<151> 1998-04-09

<160> 24

<170> PatentIn Ver. 2.1

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<211> 123

<212> PRT

<213> Porcus sp.

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Asn Pro Ala Gly Ser Cys Thr Thr Ala Met Asn Cys Ser His Asn Gln
35 40 45

Asp Ala Cys Ile Phe Val Glu Ala Val Pro Pro Lys Thr Tyr Tyr Gln
50 55 60

Cys Trp Arg Phe Asp Glu Cys Asn Phe Asp Phe Ile Ser Arg Asn Leu
65 70 75 80

Ala Glu Lys Lys Leu Lys Tyr Asn Cys Cys Arg Lys Asp Leu Cys Asn
85 90 95

Lys Ser Asp Ala Thr Ile Ser Ser Gly Lys Thr Ala Leu Leu Val Ile
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Leu Leu Leu Val Ala Thr Trp His Phe Cys Leu
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ttg ctc tgg ctc ctg tcc atc ctg gct gtt ctc tgc cac tta ggt cac 161
Leu Leu Trp Leu Leu Ser Ile Leu Ala Val Leu Cys His Leu Gly His
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agc ctg cag tgc tat aac tgt atc aac cca gct ggt agc tgc act acg 209
Ser Leu Gln Cys Tyr Asn Cys Ile Asn Pro Ala Gly Ser Cys Thr Thr
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gcc atg aat tgt tca cat aat cag gat gcc tgt atc ttc gtt gaa gcc 257
Ala Met Asn Cys Ser His Asn Gln Asp Ala Cys Ile Phe Val Glu Ala
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gtg cca ccc aaa act tac tac cag tgt tgg agg ttc gat gaa tgc aat 305
Val Pro Pro Lys Thr Tyr Tyr Gln Cys Trp Arg Phe Asp Glu Cys Asn
                               60                               65                               70

ttc gat ttc att tcg aga aac cta gcg gag aag aag ctg aag tac aac 353
Phe Asp Phe Ile Ser Arg Asn Leu Ala Glu Lys Lys Leu Lys Tyr Asn
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tgc tgc cgg aag gac ctg tgt aac aag agt gat gcc acg att tca tca 401
Cys Cys Arg Lys Asp Leu Cys Asn Lys Ser Asp Ala Thr Ile Ser Ser
   90                               95                               100

ggg aaa acc gct ctg ctg gtg atc ctg ctg ctg gta gca acc tgg cac 449
Gly Lys Thr Ala Leu Leu Val Ile Leu Leu Leu Val Ala Thr Trp His
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Phe Cys Leu

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cctggtggga aggactaaac ctagcttgag cactttggat tagagagaga aactttgagc 618

gactttgaag accaggcctg ttggcagaga agacctgtca gaggggaaac gttttaagag 678

tgaagcacag gtgatttgag cgaggcctat gcgtcttctt ctgctcttgg caggaccagc 738

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<211> 18

<212> DNA

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<223> Description of Artificial Sequence: Primer

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 tttcctgaac aaaccacaat aacatacaaa tgtaacaaag gctttgtcaa agttcctggc 180
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 cagaattatt tcccagaggg tttcacccgtg gaatatgagt gccgtaaggg ctataaaaagg 360
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 gaattttgca aaaaaaaaca atgtccgact cctggagaac taaaaaatgg tcatgtcaat 480
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 cccatcacag taaattttcc aggtacacaa gccctatcat ctctcagaa accctccaca 720
 gcaaatactc tagctacaga gttactacca actcctcagg aaccaccac agtaaatggt 780
 ccagatagta aagccatatc atctcctcag aaacctcca cagtaaatac tccagctaca 840

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<210> 17
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<213> Porcus sp.

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Asn Ala Gln Pro Asp Leu Arg Gly Leu Ala Ser Phe Pro Glu Gln Thr
      35              40              45

Thr Ile Thr Tyr Lys Cys Asn Lys Gly Phe Val Lys Val Pro Gly Met
      50              55              60

Ala Asp Ser Val Leu Cys Leu Asn Asp Lys Trp Ser Glu Val Ala Glu
      65              70              75              80

Phe Cys Asn Arg Ser Cys Asp Val Pro Thr Arg Leu His Phe Ala Ser
          85              90              95

Leu Lys Lys Ser Tyr Ser Lys Gln Asn Tyr Phe Pro Glu Gly Phe Thr
      100              105              110

Val Glu Tyr Glu Cys Arg Lys Gly Tyr Lys Arg Asp Leu Thr Leu Ser
      115              120              125

Glu Lys Leu Thr Cys Leu Gln Asn Phe Thr Trp Ser Lys Pro Asp Glu
      130              135              140

Phe Cys Lys Lys Lys Gln Cys Pro Thr Pro Gly Glu Leu Lys Asn Gly
      145              150              155              160

His Val Asn Ile Thr Thr Asp Leu Leu Phe Gly Ala Ser Ile Phe Phe
          165              170              175

Ser Cys Asn Ala Gly Tyr Arg Leu Val Gly Ala Thr Ser Ser Tyr Cys
          180              185              190

Phe Ala Ile Ala Asn Asp Val Glu Trp Ser Asp Pro Leu Pro Asp Cys
      195              200              205

Gln Glu Ile Ser Pro Thr Val Lys Ala Ile Pro Ala Val Glu Lys Pro
      210              215              220

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Ile Thr Val Asn Phe Pro Ala Thr Lys Tyr Pro Ala Ile Pro Arg Ala
 225 230 235 240
 Thr Thr Ser Phe His Ser Ser Thr Ser Lys Asn Arg Gly Asn Pro Ser
 245 250 255
 Ser Gly Met Arg Ile Met Ser Ser Gly Thr Met Leu Leu Ile Ala Gly
 260 265 270
 Gly Val Ala Val Ile Ile Ile Ile Val Ala Leu Ile Leu Ala Lys Gly
 275 280 285
 Phe Trp His Tyr Gly Lys Ser Gly Ser Tyr His Thr His Glu Asn Asn
 290 295 300
 Lys Ala Val Asn Val Ala Phe Tyr Asn Leu Pro Ala Thr Gly Asp Ala
 305 310 315 320
 Ala Xaa Val Arg Pro Gly Asn
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<210> 18
 <211> 325
 <212> PRT
 <213> Porcus sp.

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 Pro Asp Leu Arg Gly Leu Ala Ser Phe Pro Glu Gln Thr Thr Ile Thr
 35 40 45
 Tyr Lys Cys Asn Lys Gly Phe Val Lys Val Pro Gly Met Ala Asp Ser
 50 55 60
 Val Leu Cys Leu Asn Asp Lys Trp Ser Glu Val Ala Glu Phe Cys Asn
 65 70 75 80
 Arg Ser Cys Asp Val Pro Thr Arg Leu His Phe Ala Ser Leu Lys Lys
 85 90 95
 Ser Tyr Ser Lys Gln Asn Tyr Phe Pro Glu Gly Phe Thr Val Glu Tyr
 100 105 110
 Glu Cys Arg Lys Gly Tyr Lys Arg Asp Leu Thr Leu Ser Glu Lys Leu
 115 120 125
 Thr Cys Leu Gln Asn Phe Thr Trp Ser Lys Pro Asp Glu Phe Cys Lys
 130 135 140
 Lys Lys Gln Cys Pro Thr Pro Gly Glu Leu Lys Asn Gly His Val Asn
 145 150 155 160

Ile Thr Thr Asp Leu Leu Phe Gly Ala Ser Ile Phe Phe Ser Cys Asn
165 170 175

Ala Gly Tyr Arg Leu Val Gly Ala Thr Ser Ser Tyr Cys Phe Ala Ile
180 185 190

Ala Asn Asp Val Glu Trp Ser Asp Pro Leu Pro Glu Cys Gln Glu Ile
195 200 205

Ser Pro Thr Val Lys Ala Ile Pro Ala Val Glu Lys Pro Ile Thr Val
210 215 220

Asn Phe Pro Gly Thr Lys Ala Leu Ser Ser Pro Gln Lys Pro Ser Thr
225 230 235 240

Ala Asn Thr Leu Ala Thr Glu Leu Leu Pro Thr Pro Gln Glu Pro Thr
245 250 255

Thr Val Asn Val Pro Asp Ser Lys Ala Ile Ser Ser Pro Gln Lys Pro
260 265 270

Ser Thr Val Asn Thr Pro Ala Thr Asp Leu Leu Pro Thr Pro Gln Glu
275 280 285

Pro Thr Thr Val Asn Val Pro Asp Ser Lys Ala Ile Ser Ser Ser Gln
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Arg Asn Pro Pro Gln
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<211> 376

<212> PRT

<213> Homo sapiens

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Leu Pro Pro Asp Val Pro Asn Ala Gln Pro Ala Leu Glu Gly Arg Thr
35 40 45

Ser Phe Pro Glu Asp Thr Val Ile Thr Tyr Lys Cys Glu Glu Ser Phe
50 55 60

Val Lys Ile Pro Gly Glu Lys Asp Ser Val Thr Cys Leu Lys Gly Met
65 70 75 80

Gln Trp Ser Asp Ile Glu Glu Phe Cys Asn Arg Ser Cys Glu Val Pro
85 90 95

Thr Arg Leu Asn Ser Ala Ser Leu Lys Gln Pro Tyr Ile Thr Gln Asn
 100 105 110
 Tyr Phe Pro Val Gly Thr Val Val Glu Tyr Glu Cys Arg Pro Gly Tyr
 115 120 125
 Arg Arg Glu Pro Ser Leu Ser Pro Lys Leu Thr Cys Leu Gln Asn Leu
 130 135 140
 Lys Trp Ser Thr Ala Val Glu Phe Cys Lys Lys Lys Ser Cys Pro Asn
 145 150 155 160
 Pro Gly Glu Ile Arg Asn Gly Gln Ile Asp Val Pro Gly Gly Ile Leu
 165 170 175
 Phe Gly Ala Thr Ile Ser Phe Ser Cys Asn Thr Gly Tyr Lys Leu Phe
 180 185 190
 Gly Ser Thr Ser Ser Phe Cys Leu Ile Ser Gly Ser Ser Val Gln Trp
 195 200 205
 Ser Asp Pro Leu Pro Glu Cys Arg Glu Ile Tyr Cys Pro Ala Pro Pro
 210 215 220
 Gln Ile Asp Asn Gly Ile Ile Gln Gly Glu Arg Asp His Tyr Gly Tyr
 225 230 235 240
 Arg Gln Ser Val Thr Tyr Ala Cys Asn Lys Gly Phe Thr Met Ile Gly
 245 250 255
 Glu His Ser Ile Tyr Cys Thr Val Asn Asn Asp Glu Gly Glu Trp Ser
 260 265 270
 Gly Pro Pro Pro Glu Cys Arg Gly Lys Ser Leu Thr Ser Lys Val Pro
 275 280 285
 Pro Thr Val Gln Lys Pro Thr Thr Val Asn Val Pro Thr Thr Glu Val
 290 295 300
 Ser Pro Thr Ser Gln Lys Thr Thr Thr Lys Thr Thr Thr Pro Asn Ala
 305 310 315 320
 Gln Ala Thr Arg Ser Thr Pro Val Ser Arg Thr Thr Lys His Phe His
 325 330 335
 Glu Thr Thr Pro Asn Lys Gly Ser Gly Thr Thr Ser Gly Thr Thr Arg
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<213> Homo sapiens

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          20           25           30

Asn Pro Thr Ala Asp Cys Lys Thr Ala Val Asn Cys Ser Ser Asp Phe
          35           40           45

Asp Ala Cys Leu Ile Thr Lys Ala Gly Leu Gln Val Tyr Asn Lys Cys
          50           55           60

Trp Lys Phe Glu His Cys Asn Phe Asn Asp Val Thr Thr Arg Leu Arg
          65           70           75           80

Glu Asn Glu Leu Thr Tyr Tyr Cys Cys Lys Lys Asp Leu Cys Asn Phe
          85           90           95

Asn Glu Gln Leu Glu Asn Gly Gly Thr Ser Leu Ser Glu Lys Thr Val
          100          105          110

Leu Leu Leu Val Thr Pro Phe Leu Ala Ala Ala Trp Ser Leu His Pro
          115          120          125
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<212> PRT

<213> Rattus sp.

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          20           25           30

Ser Ser Cys Lys Thr Asn Ser Thr Cys Ser Pro Asn Leu Asp Ala Cys
          35           40           45

Leu Val Ala Val Ser Gly Lys Gln Val Tyr Gln Gln Cys Trp Arg Phe
          50           55           60

Ser Asp Cys Asn Ala Lys Phe Ile Leu Ser Arg Leu Glu Ile Ala Asn
          65           70           75           80

Val Gln Tyr Arg Cys Cys Gln Ala Asp Leu Cys Asn Lys Ser Phe Glu
          85           90           95

Asp Lys Pro Asn Asn Gly Ala Ile Ser Leu Leu Gly Lys Thr Ala Leu
          100          105          110

Leu Val Thr Ser Val Leu Ala Ala Ile Leu Lys Pro Cys Phe
          115          120          125
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 <213> Murine sp.

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 35 40 45
 Ser Cys Leu Tyr Ala Val Ala Gly Met Gln Val Tyr Gln Arg Cys Trp
 50 55 60
 Lys Gln Ser Asp Cys His Gly Glu Ile Ile Met Asp Gln Leu Glu Glu
 65 70 75 80
 Thr Lys Leu Lys Phe Arg Cys Cys Gln Phe Asn Leu Cys Asn Lys Ser
 85 90 95
 Asp Gly Ser Leu Gly Lys Thr Pro Leu Leu Gly Thr Ser Val Leu Val
 100 105 110
 Ala Ile Leu Asn Leu Cys Phe Leu Ser His Leu
 115 120

<210> 23
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 <212> PRT
 <213> Homo sapiens

<400> 23
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<210> 24
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<220>
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 <223> Any amino acid

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<222> (10)

<223> Any amino acid

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